Amendments to the Claims

- 1. (Currently amended) A sputtering <u>target</u> component comprising a sputtering surface, at least 99 atomic% of the sputtering surface consisting of a single phase corresponding to a solid solution of two or more elements in elemental form; each of the two or more elements being selected from groups 1, 5, 6, 8, 9 and 10 of the periodic table, the target being configured for mounting within a physical vapor deposition apparatus.
- 2. (Currently amended) The sputtering <u>target</u> component of claim 1 wherein at least 99.9 atomic% of the sputtering surface consists of the single phase.
- 3. (Currently amended) The sputtering <u>target component</u> of claim 1 wherein an entirety of the sputtering surface consists of the single phase.
 - 4. (Cancelled)
- 5. (Currently amended) The physical vapor deposition sputtering target of claim 4- claim 1 having a total volume, and wherein at least 99 atomic% of the total volume consists of the single phase.
- 6. (Currently amended) The physical vapor deposition sputtering target of claim 4 wherein at least 99.9 atomic% of the total volume consists of the single phase.
- 7. (Currently amended) The physical vapor deposition sputtering target of claim 4 wherein an entirety of the total volume consists of the single phase.

- 8. (Currently amended) A thin film sputter-deposited <u>over a semiconductive</u> wafer from the sputtering target component of claim 1 wherein the two or more elements of the solid solution are other than a binary solution of Ta and Mo, the thin film comprising a single phase solid solution.
- 9. (Currently amended) The sputtering <u>target</u> component of claim 1 wherein the two or more elements include at least two elements selected from group 1 of the periodic table.
- 10. (Withdrawn) The sputtering <u>target</u> component of claim 1 wherein the two or more elements are selected only from group 1 of the periodic table.
- 11. (Withdrawn) A thin film sputter-deposited from the sputtering target component of claim 10.
- 12. (Withdrawn) The sputtering <u>target</u> component of claim 10 wherein the two or more elements consist of Cs and Rb.
- 13. (Currently amended) The sputtering <u>target</u> component of claim 1 wherein the two or more elements include at least two elements selected from group 5 of the periodic table.
- 14. (Currently amended) The sputtering <u>target component</u> of claim 1 wherein the two or more elements are selected only from group 5 of the periodic table.

- 15. (Currently amended) A thin film sputter-deposited from the sputtering <u>target</u> eemponent of claim 14 comprising a single phase solid solution.
- 16. (Withdrawn) The sputtering component <u>target</u> of claim 14 wherein each of the two or more elements are selected from the group consisting of Ta, Nb, and V.
- 17. (Currently amended) The sputtering <u>target</u> component of claim 1 wherein the two or more elements include at least two elements selected from group 6 of the periodic table.
- 18. (Withdrawn) The sputtering <u>target</u> component of claim 1 wherein the two or more elements are selected only from group 6 of the periodic table.
- 19. (Withdrawn) A thin film sputter-deposited from the sputtering target component of claim 18.
- 20. (Currently amended) The sputtering <u>target component</u> of claim 1 wherein the two or more elements include at least two elements selected from groups 8, 9 and 10 of the periodic table.
- 21. (Withdrawn) The sputtering <u>target component</u> of claim 1 wherein the two or more elements are selected only from groups 8, 9 and 10 of the periodic table.
- 22. (Withdrawn) A thin film sputter-deposited from the sputtering <u>target</u> component of claim 21.

- 23. (Withdrawn) The sputtering <u>target</u> component of claim 21 wherein the solution is a binary combination selected from the group consisting of Fe/Os, Fe/Ru, Co/Ir, Co/Rh, Ir/Rh, Ni/Pd, Ni/Pt, Co/Ni and Pd/Pt.
- 24. (Currently amended) The sputtering <u>target</u> component of claim 1 wherein the solution is Ta/Mo.
- 25. (Currently amended) The sputtering <u>target</u> component of claim 1 wherein the solution is Ta/W.
- 26. (Withdrawn) The sputtering <u>target</u> component of claim 1 wherein the solution is Cr/Fe.
- 27. (Withdrawn) A sputtering component comprising a single phase solid solution comprising elemental Cu and elemental Ni.

Claims 28-41 (Canceled).

- 42. (Currently amended) The sputtering <u>target component</u> of claim 1 wherein the component has no single element present at an amount exceeding 95%, by weight.
- 43. (New) A thin film sputter-deposited over a semiconductive wafer from the sputtering target of claim 1 wherein the solid solution contains a binary solution of Ta and Mo, wherein Ta is present at less than 30 atomic %, the thin film comprising a single phase solid solution.

44. (New) A thin film sputter-deposited over a semiconductive wafer from the sputtering target of claim 1 wherein the solid solution contains a binary solution of Ta and Mo, wherein Ta is present at greater than 84 atomic %, the thin film comprising a single phase solid solution.